

PROGRAMMABLE OBJECT MODEL FOR EXTENSIBLE MARKUP LANGUAGE SCHEMA VALIDATION

Abstract

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A programmable object model allows a user/programmer to access programmatically the schema validation model of an application. The programmable object model includes a plurality of object-oriented message calls for application programming interfaces for allowing a user to programmatically access the schema validation model of an application by sending message calls and required parameters to the schema validation model in order to customize or otherwise modify the operation of the schema validation model as desired by the user. Once the user has access to the schema validation model of a given application, the user may attach Extensible Markup Language (XML) schema files to a document and control definitions, grammatical rules, and other settings dictated by the attached XML schema file. Accessing the schema validation model of a given application also allows the user to customize the application's native schema validation functionality with user-defined rules and error text. The XML schema validation model of a given application may be accessed by the user from a user-created program written according to a variety of different languages such as C, C++, C#, Visual Basic and the like.

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